rapidly the vapour contents and the corresponding amount of heat increase
with the temperature.

ao **200** **40**   **120**   **140**
                           80   **10O**
                    TEMPERATURE?FAH
Fig. 29.—Heat and Vapour Contents in i Ib.Air at
Atmospheric Pressure

Suppose the saturated air entering a cooling tower at 60° F. leaves the
tower saturated at 90° F., then the amount of vapour absorbed is

$$0\text{-}031 — O'Oii = 0\text{-}02 \text{ Ib. per pound air,}$$

and the absorption of heat is

$$48 — 18 = 30 \text{ B.Th.U. per pound air.}$$

Under normal   conditions   of operation,   however, the air   entering and